

Appl. No. 10/788830

In the Claims:

Listing of all claims:

1-37. (Cancelled.)

1           38. (Currently Amended) A system for welding  
2 comprising:

3           a welding power source having a welding power  
4 output;

5           a wire feeder connected to the welding output and  
6 having a speed control input; and

7           a controller having a speed control output  
8 connected to the speed control input having a weld wire  
9 speed set point, and a run-in wire speed set point, wherein  
10 the run-in speed set point is a set percentage of the weld  
11 wire speed set point, whereby a change in the weld wire  
12 speed set point effects a like-change in the run-in wire  
13 speed set point to maintain the set percentage.

1           39. (Original) The system of claim 38, wherein the  
2 set percentage is a user selectable percentage.

1           40. (Original) The system of claim 39, wherein the  
2 percentage is between 25 percent and 150 percent.

1           41. (Original) The system of claim 39, wherein the  
2 system includes a weld wire feed user input, and wherein the  
3 controller includes a run-in set circuit including a percent  
4 input connected to the user input and an enable input.

1           42. (Original) The system of claim 41, wherein the  
2 enable input receives a trigger state signal and a power-up  
3 signal.

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1           43. (Original)     The system of claim 42 wherein the  
2 user input is a potentiometer.

1           44. (Original)     The system of claim 43, wherein the  
2 enable input is connected to a user selectable toggle switch.

3           45. (Original)     The system of claim 38 wherein the  
4 controller is a microprocessor controller.

1           46. (Original)     The system of claim 38 wherein the  
2 controller is an analog controller.

1           47. (Currently Amended) A system for welding  
2 comprising:

3           power means for supplying welding power to an arc;  
4           feeder means for feeding wire to the arc; and  
5           control means for controlling a speed of the  
6           feeder means to a weld speed and a run-in speed, wherein the  
7           run-in speed set point is a set percentage of the weld speed  
8           set point whereby a change in the weld wire speed set point  
9           effects a like-change in the run-in wire speed set point to  
10          maintain the set percentage, connected to the feeder means.

1           48. (Original)     The system of claim 47, further  
2 comprising means for allowing the user to select the set  
3 percentage, connected to the control means.

1           49. (Original)     A method of welding  
2 comprising:

3           providing welding power to an arc;  
4           feeding wire to the arc;

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5                   controlling the speed of the wire during a run-in  
6 state; and

7                   controlling the speed of the wire during a weld  
8 state, wherein the run-in speed set is a set percentage of  
9 the weld speed, whereby a change in the weld wire speed set  
10 point effects a like-change in the run-in wire speed set  
11 point to maintain the set percentage.

1                 50. (Original) The method of claim 49, including  
2 using a user selectable percentage as the set percentage.

1                 51. (Original) The method of claim 50, including  
2 using the set percentage from the range of between 25 percent and  
3 150 percent.

1                 52. (Original) The method of claim 51, including  
2 determining the user selected percentage speed in response to an  
3 enable signal and a weld wire feed user input.

53-70. {Withdrawn}